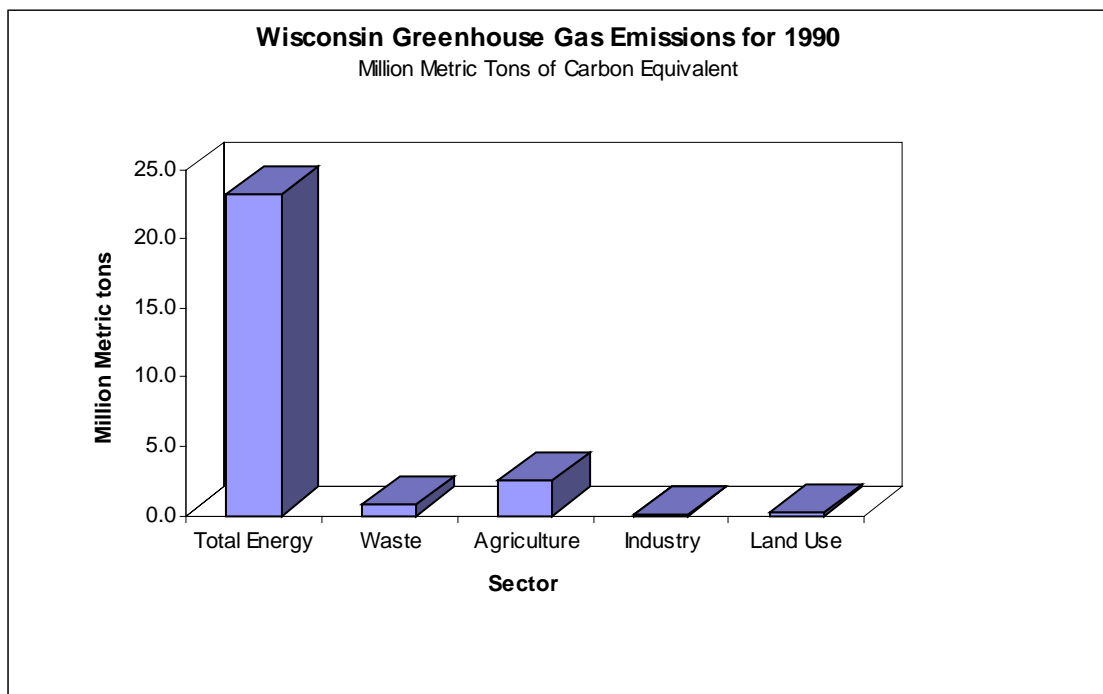


## WISCONSIN GREENHOUSE GAS EMISSIONS AND SINKS INVENTORY: SUMMARY



This report provides a detailed inventory of greenhouse gas emissions and sinks for Wisconsin in 1990. Emissions were estimated using methods from EPA's 1995 guidance document ***State Workbook: Methodologies for Estimating Greenhouse Gas Emissions***. In 1990, Wisconsin emitted 26.7 million metric tons of carbon dioxide equivalent (MMTCE). Wisconsin estimated emissions of 5.5 MMTCE from biomass fuels and from other sources not included in the workbook.<sup>1</sup> Emissions from these sources are not included in the reported total or the table below.

The principal greenhouse gases were carbon dioxide, comprising 83.8 million metric tons, and methane, with 0.58 million metric tons (3.3 MMTCE). Other emissions included 0.01 million metric tons of nitrous oxide (0.5 MMTCE).

The major source of carbon dioxide emissions was fossil fuel combustion (99%). Carbon dioxide sinks resulting from land use were not estimated in this inventory. Contributors to methane emissions were domesticated animals (54%), landfills (22%), coal mining and natural gas production (17%) and manure management (7%). Nitrous oxide emissions were attributable to fertilizer use.

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<sup>1</sup> These emissions include methane from fossil fuel and biomass combustion and from game animals; methane and nitrous oxide from highway vehicles and from non-highway mobile sources; carbon dioxide from landfills, waste incineration, nuclear fuel, pulp and paper kilns; oil refining, transportation, and flaring; production, processing, transportation, and distribution of natural gas; nitrous oxide from forest land use change; and emissions from other fertilizers and from wetland drainage.

### Wisconsin Greenhouse Gas Emissions for 1990

SECTOR	CO <sub>2</sub> (MMTCE)	Methane (MMTCE)	Nitrous Oxide (MMTCE)	PFCs (MMTCE)	Total GHG Emissions (MMTCE)
Energy - Residential	2.6	*	*	*	2.6
Energy - Commercial	1.3	*	*	*	1.3
Energy - Industrial	3.3	*	*	*	3.3
Energy - Transport	6.6	*	*	*	6.6
Energy - Utility	8.9	*	*	*	8.9
<b>Total Energy</b>	<b>22.6</b>	<b>0.6</b>	*	*	<b>23.1</b>
<b>Waste</b>	*	<b>0.7</b>	*	*	<b>0.7</b>
<b>Agriculture</b>	*	<b>2.0</b>	<b>0.5</b>	*	<b>2.5</b>
<b>Industry</b>	<b>0.1</b>	*	*	*	<b>0.1</b>
<b>Land Use</b>	<b>0.2</b>	*	*	*	<b>0.2</b>
<b>Total</b>	<b>22.9</b>	<b>3.3</b>	<b>0.5</b>	*	<b>26.7</b>

All emissions are reported in million metric tons of carbon equivalent (MMTCE).

An asterisk ( \* ) indicates that emissions of the gas from this sector were zero, insignificant, or not reported.

Emissions due to coal mining and extraction of natural gas and oil are included in the total energy figures, and emissions from biofuel combustion are excluded.

Wisconsin's emissions in 1990 were 5.4 MTCE per capita, compared to 1990 U.S. emissions of 6.4 MTCE per capita.